

## PRESS RELEASE

### Getting a Handle on Extraneous Rust

**No more extraneous rust in stainless steel machining**

### **INOX handpieces for BW machines**

Nowadays, more and more products are being manufactured from stainless steel and higher and higher requirements are being placed on the surface finish of these products. In the process, a problem has appeared that does not seem to be spectacular at first glance, but ultimately causes high costs: extraneous rust.



Preventing tools from coming into the surfaces of usually very expensive parts during grinding is extremely difficult. Depending on the material of the tool, minuscule particles remain on the surface even in case of only brief contact. These particles become visible as extraneous rust over time.

To prevent this problem, a careful and therefore timely procedure is required.

The universal SUHNER machines with a flexible shaft are the grinding technology of choice for professional applications. Their versatility, performance and flexibility are second to none. As a result, they have been firmly established in industry and trade for years.

#### **Stainless steel for stainless steel**

SUHNER – the specialist in this area – has now developed a series of new handpieces for this all-rounder. They bear the additional designation "INOX" and put an end to the problem of extraneous rust. The series comprises four basic models plus international variants, of which each is almost completely manufactured of stainless steel – from the external jacket to the clamping nut. In practice, this means: no contamination with rusting particles, the greatest possible protection of the workpieces and a clear reduction of costs.

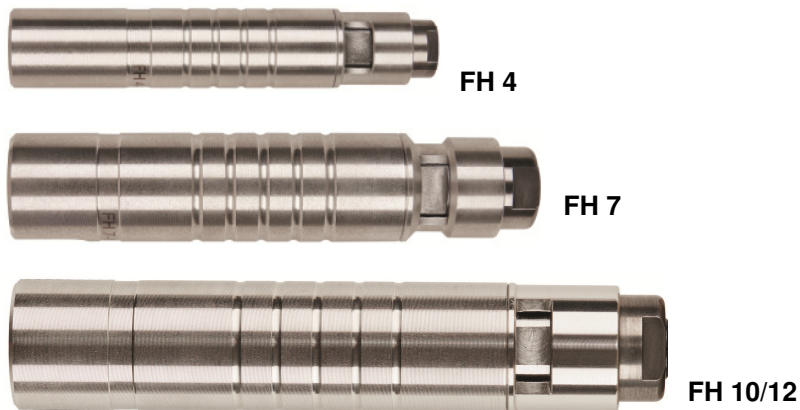
#### **Technology in detail**

The structural design with dimensions, weight, speed ranges, and so on remains identical. The new handpieces thus fit the existing machines.

To protect the ball bearing and dampen vibrations, the handpieces have an elastic bearing. This makes machining with carbide cutters agreeable and protects the tools, while guaranteeing true running and a long service life. The handle sleeve is uncoupled from the working spindle. Air chambers in the bearing have an heat-insulating effect.

During vibration measurements with carbide cutters, a 50% reduction was measured in comparison with previous handpieces.

For a quick and easy change, the new handpieces are equipped with an additional mounting aid.



The chuck diameters amount to 6, 8 and 12 mm with corresponding variants for the international market. The handle sleeves have a cylindrical shape for safe clamping in chucks, e.g., for the attachment of safety devices or customer-specific adaptations.

The external diameters are as follows: 18.5, 25 and 32 mm.

SUHNER also provides all flexible shafts with stainless hose couplings that fit all handpieces in the standard design. This combination guarantees the long service life of both devices.

### **Areas of application**

The new, straight handpieces have been specifically developed for the processors of INOX materials in the area of surface processing or refinement. They are used in container construction for the pharmaceutical and food sectors, the construction of large kitchen furniture, the metal construction of stainless steel doors and windows, and railing construction and wherever a lasting, fine finish is decisive in stainless steel processing.












## Know-how on site

SUHNER provides demo services for application expertise. This offers interested parties expert advice free of charge from experienced sales representatives. The demo services vehicle carries all of the usual tools, attachments, and abrasives, and the right end-to-end solution can be found directly on site based on the actual workpieces.

**We are happy to provide you with further information upon request.**

The copy and image files can also be downloaded from:

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